BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

						Estimate Cost Rs.		1000000.00	

Name of Work: Detailed Estimate for the work of Maintenance of Existing borewells at village limit areas and yelahanka old town areas in chowdeshwari ward no - 02 of yelahanka sub division.

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
2	Lifting of Submersible Pump set (P,46/I.10.3.21 RDED SR (2002-03)	No	4				4	750.00	3000.00
3	Transportataion of pumping machineries (P.46/I.103)RDED SR (2002-03)	No	4				4	800.00	3200.00
4	A) Repairs to Motor:Rewinding of submersible pump sets with copper insulation wire of suitable gauge as per ISI specification with guarantee of 6months. RDED SR (2002-03)P NO.39/ I.NO.A)								
	a) -Do - above 3HP upto 5HP	No	4				4	2600.00	10400.00
	b) -Do - above 5HP upto 10HP	No	5				5	3800.00	19000.00
	(Above 5HP upto 10HP add Rs.120/- for every 1/2 HP)								
	B) Replacement of Motor Parts:								
5	Above 5HP Stator (with one year Gurantee) P.No.40/Ino.C(2)RDED SR (2002-03)	No	4				4	4800.00	19200.00
6	Above 5HP Rotor (with one year Gurantee) P.No.40/I No.C(2)RDED SR (2002-03)	No	4				4	4500.00	18000.00
7	Upper Flange P.No.40/I No.3 RDED SR (2002-03)	No	4				4	375.00	1500.00
8	Lower Housing P.No.40/I No.4 RDED SR (2002-03)	No	4				4	650.00	2600.00
9	Lower Flange P.No.40/I No.5 RDED SR (2002-03)	No	4				4	375.00	1500.00
10	a) Carbon Housing P.No.40/I No.7A RDED SR (2002-03)	No	4				4	500.00	2000.00
11	b) Thrust bearing block assembly complete with Segment bearing pad P.No.40/I No.7B RDED SR (2002-03)	No	4				4	1150.00	4600.00
12	c) Tip Carbon /Ferrodo pading P.No.40/I No.7C RDED SR (2002-03)	No	4				4	150.00	600.00
13	Bearing (Gun metal)Centrifugal cast Aluminium Bronze, bearing bush P.No.41/I No,9 RDED SR (2002-03)	No	4				4	430.00	1720.00
14	Motor Base with pin P.No. 41/ I No.11 RDED SR (2002-03)	No	4				4	480.00	1920.00
15	Re-erection charges of pumping machineries including overhauling and painting P.No.41/I No 13,RDED SR (2002-03)	No	4				4	850.00	3400.00

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
15	Labour Charge (overhauling Motor only) **P.No.41/ I No.15 RDED SR (2002-03)**	No	4				4	600.00	2400.00
16	C) Replacement of pump parts: The following main components of submersible pump sets requiring replacement Pump bowls **P.No.39 / I No B1 RDED SR (2002-03)**	No	4				4	650.00	2600.00
17	Intermediate piece (I.P) with IP leaded bronze bush **P.No. 44/ I No.B2 RDED SR (2002-03)**	No	4				4	650.00	2600.00
18	Oil seal **P.No. 44/ I No.B3 RDED SR (2002-03)**	No	4				4	75.00	300.00
19	Oil seal steel bush **P.No. 39/ I No.B4 RDED SR (2002-03)**	No	4				4	85.00	340.00
20	Guide vane Pno 39/I No B5 RDED (2002-03)	No	4				4	175.00	700.00
21	Impeller (shell moulded with aluminium and Bonze) P No 39/ I no B6 RDED SR 2002-03	No	4				4	450.00	1800.00
22	a) Discharge outlet (D.O) Bearing D.O Steel Bush **P.No. 39/ I No.B7 RDED SR (2002-03)**	No	4				4	575.00	2300.00
23	b)D.O Bearing **P.No. 39/ I No.B7 RDED SR (2002-03)**	No	4				4	325.00	1300.00
24	Steel bush (D.O) steel bush) **P.No. 39/ I No.B8 RDED SR (2002-03)**	No	4				4	160.00	640.00
25	Allen Screw **P.No. 40/ I No.9 RDED SR (2002-03)**	No	4				4	25.00	100.00
26	Pump shaft made out of stainless steel Centreless ground with key way (upto 8 stages) **P.No. 40/ I No.10 RDED SR (2002-03)**	No	4				4	1150.00	4600.00
27	Pump key (Stainless steel) **P.No. 40/ I No.11 RDED SR (2002-03)**	No	4				4	140.00	560.00
28	Pump coupling (stainless steel) **P.No. 40/ I No.12RDED SR (2002-03)**	No	4				4	300.00	1200.00
30	Non - Return valve (NRV) assembly complete with rubber 'O' Ring **P.No. 40/ I No.13RDED SR (2002-03)**	No	4				4	1350.00	5400.00
31	Cabble guard **P.No. 40/ I No.14RDED SR (2002-03)**	No	4				4	175.00	700.00
32	Strainer **P.No. 40/ I No.15RDED SR (2002-03)**	No	4				4	150.00	600.00
33	Providing and fixing 50 mm dia heavy duty coller **SE RDED Approved rate**	No	4				4	130.00	520.00

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
34	Supply & delivery at site brand new exmo/innoval/lubi/sabar /Atalanta/calamal/ waterman/Radha make suitable HP deep well submercible pumpset suitable for vertical installation in 150 dia borewells compressing of single stage or multistage CF pump close coupled by means of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water squirrel cagesubmercible induction motor suitable for operation of 3Ph, 50Hz.380/440 volts AC supply fitted with required accessories such as suction, casing, suction strainers,	No							
	17.5HP 30 Stage		2						
	Basic Rate	72126.00					2	72126.00	144252.00
35	Providing, laying & jointing GI pipes confirming to IS specification of approved make with fittings such as collars bends elbows tees nipples plugs with cuts threads using white lead & threads for joints wherever necessary as per direction including all lead & lift etc,. complete 'A' grade(excluding cost of fittings)	Rmtr							
			2	200.00			400.00	279.66	111864.00
	Basic Rate	279.66							
36	Providing & fixing heavy duty collar (P.NO-III, I.NO-86, PRED 12-13 SR)		2	50.00			100.00	154.50	15450.00
	Basic Rate	150.00							
	3% area weightage	4.50							
	Total	**154.50**							
37	Supplying and drawing 3 core PVC Sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor confirming to table 3 class 5 of IS: 8130-1984 and virgin grade PVC insulation and sheathed suitable for working voltage upto	Mtr							
			4	480.00			1920.00	188.70	362304.00

No		Unit	No	L	B	D	Qty	Rate	Amount
42	Supplying and delivery of brand new best make Gate Valve of size 50mm as per IS: 778/84 with latest amendments with ISI mark . 50mm Gate Valve for distributer pipeline. 50mm dia (PWD SR 18-19, P.NO.XXVI, Sl.no, 661 Code No. 0164)	No's							
	Basic Rate	1398.31	2	3.00			6.00	1398.31	8390.00
43	Labour charges for erection of new /repaired submersible pumpset along with GI pipes (32/50mm) cable (new submersible pumpset if required will be supplied by the department free of cost and released pump set should be handed over to department) including transportation (each length = 6.00m) (P.No - 564, I.No - 3, BWSSB SR 13-14)	Per length							
	Basic Rate	88.00	2	45.00			90.00	93.28	8395.00
	6% area weightage	5.28							
	Total	93.28							
44	Erection of combined panel board meter board with all necessary materials and labour including providing CC 1:3:6 foundation bed etc,. Complete for basement out door type. (MR)	No's							
			2	1.00			2.00	475.00	950.00
45	Supplying and fixing miniature circuit breakers/isolators in existing MCB distribution boards using necessary fixing materials and wiring complete as required, 40 to 63 Amps DP (P.NO - 526, I.NO - 13D (a), BWSSB SR 13-14)	No's							
	Basic Rate	880.00	2	1.00			2.00	932.80	1866.00
	6% area weightage	52.80							
	Total	932.80							
46	Supplying and fixing of Porcelain fuse channel with cut out on existing wooden / panel using necessary nuts, bolts and washer etc., complete.... **P No. 32/I No 3b KPWD Electrical SR 2010-11**	No.							
	63 Amps		2	3.00			6.00		
							6.00	150.00	900.00
47	Supplying and laying of L.T.U.G Cable having aluminiumconductor PVC insulated shethed galvanised steel wire/ steel tape armoured cable with PVC outer sheathing 1.1 KV class 4 core 16 sqmm cable (	Mtr							

No		Unit	No	L	B	D	Qty	Rate	Amount
	Basic Rate	165.00	2	28.00			56.00	174.90	9794.00
	6% area weightage	9.90							
	Total	174.90							
48	Digging of trenches of 0.6mm x 0.50 Mtrs wide refilling the trench to the required ground level and consolidating etc,. Complete sutting road surfaces (P.NO - 554, I.NO - 12 (b), BWSSB SR 13-14)	Mtr							
	Basic Rate	55	2	28.00			56.00	58.30	3265.00
	6% area weightage	3.30							
	Total	58.30							
49	Supplying and fixing Class-A GI Pipe on pole/ wall/drain crossing with necessary clamping arrangements for UG Cable of 1.1 KV class 40mm (P.NO - 555, I.NO - 15 (b), BWSSB SR 13-14)	Mtr							
	Basic Rate	286.00	2	3.00			6.00	303.16	1819.00
	6% area weightage	17.16							
	Total	303.16							
50	Supplying and fixing wiring earth electrode for grounding conduits, IC cutouts and other equipments on the meter board using 40mm dia 2.90 mm thick GI pipe 2.5 mtr long buried in a pit,/ the pit should be filled with equal proportion of salt and charocal 150 mm alround the pipe to complete depth the connections from the pipe to the conduit etc,. is to be established though GI wire of size as per ISI specification 7.3.3 of ISI 732 using 12mm dia boalts, nuts washers and checknuts etc,. the pipe shall have 16 through holes of 122mm dia (P.NO - 552, I.NO - 7 , BWSSB SR 13-14)	No's							
	Basic Rate	1650.00	2				2.00	1749.00	3498.00
	6% area weightage	99.00							
	Total	1749.00							
51	Supply and fixing LT cast iron pot heads suitable for 1.1 KV class 16 sqmmUG cable filled with necessary bitumen/ insulating compound complete with terminals, clamps, bolts nuts and washers etc, (P.NO - 555, I NO - 16 (b) , BWSSB SR 13-14)	No's							
	Basic Rate	264.00	2				2.00	279.84	560.00
	6% area weightage	15.84							
	Total	279.84							

		Unit	No	L	B	D	Qty	Rate	Amount
52	Providing and fixing Gun Metal Gate wheel valve confirming to IS specification of approved make as per direction including all lead and lift etc,. Complete. 50mm dia (P.NO - 97, I.NO - 13.79.6, PWD SR 18-19)	No's							
			2	3.00					
	Basic Rate	734.00					6.00	778.04	4668.00
	6% area weightage	44.04							
	Total	778.04							
53	Supplying and fixing of polished wood board made of not less than 15mm thick plank on both sides with planks made out on not more than 2 pieces and fixing the same to wall using tapered inverted wooden plugs screws etc., Size 20 x 20 x 2.5 inches (P.NO - 521, I.NO - 2 (f), BWSSB SR 13-14)	No's							
			2						
	Basic Rate	302.500					2.00	320.65	641.00
	6% area weightage	18.15							
	Total	320.650							
54	Public fountains including GI taps and all accossories	Nos							
			15				15.00	2500.00	37500.00
							Sub Total		889889.00
							GST 12%		106786.68
55	Miscelaneous and rounding off.								3324.32
								TOTAL	1000000.00

(Rupees Ten lakhs Only)

CERTIFICATE

1 The work spot has been inspected and the work is found necessary.

2 The Estimate is prepared as per the PRED SR 2019-20 and PW,P & IWTD SR 2013-14 and BWSSB Electrical SR 2013-14

3 The provisions were made in this estimate are necessary and adequate.

4 This works come under B.B.M.P. limits.

Assistant Engineer

Executive Engineer
Yelahanka Division
Bangalore-64

Asst. Executive Engineer
Yelahanka Sub. Division
(BBMP Yhk. Zn)
Yelahanka, Bangalore

Assistant Executive Engineer
Yelahanka Sub Division
Bangalore-64

Administrative Approval

Accorded For Rs 10 lakhs only
Head of A/C 1802
CER NO : 249 Dt: 22.03.2020

TA CE (YNK)

TECHNICALLY SANCTIONED FOR Rs. 10.00 lakhs
Rupees Ten lakhs only
Under 2019-20 POW Zonal works
P-1802
Registered as CE ( ) No. 9 9
Subject to conditions contained in enclosed memo EE ( ) No. /e/
Dt. Estimate A/ Sanctioned
EE/YNK/T.S/19/2020-21 No.
Dated 12/04/2020 Rs. 10.00 lakhs

Executive Engineer